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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,428	04/22/2004	Deng-Hsi Chen	CHU 246	7006

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EXAMINER

WRIGHT, INGRID D

ART UNIT	PAPER NUMBER
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2835

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/829,428	Applicant(s) CHEN, DENG-HSI	
	Examiner Ingrid Wright	Art Unit 2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 April 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/22/04 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 1 recites "the screw holes" in line 3, "the fastening holes" in line 3, "the metal case" in line 4, "the HDD racks " in line 4, and "said switches are closed after the HDD is installed for fast replacement" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 also recites "said frame rack." Which frame rack is being referred to as there are two frame racks recited in line 2 of claim 1.

Drawings Objections

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. On sheet 3 of the drawings, a switch is located on the front of the frame rack. Therefore, the "an inserting slot is on the front of said frame rack" in line 5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not

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be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Franke et al. (US 2005/0094367 A1) in view of Collins et al. (US 5868261).

With respect to claim 1, Franke et al. teaches (Fig. 1) two frame racks, a HDD rack (100) and several accompanied screws (110,112), said screws (110,112) are installed onto the screw holes (not labeled) on both sides of the

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HDD (102), said frame racks, a HDD rack (100) and fastening holes (1202) of the metal case that are originally for the HDD racks (100), an inserting slot (108,208) is on the front of said frame rack, said screws (110,112) slide into the inserting slots (108,208) of said frame racks.

Franke et al. does not teach a switch is on the front of said frame rack, in which said switches are closed after the HDD is installed for fast replacement.

Collins et al. teaches a latch (46) on the front of a frame rack (10) and said switches are closed after the HDD (16) is installed for fast replacement.

Since the inventions of Franke et al. and Collins et al. are from the same field of endeavor (computer housing) the purpose of the latch mechanism being a switch or locking mechanism as taught by Collins et al. would be recognized in the invention of Franke et al.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize latch body as taught by Collins et al. in the invention of Franke et al., in order to allow a HDD module to be quickly removed and secured.

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With respect to claim 2, Franke et al. teaches (Fig. 12) a hook (1000) is on the back of said frame rack, an inserting slot (108,208) is on the front of said frame rack.

Franke et al. does not teach a switch is on the front of said frame rack.

Collins et al. teaches a switch (46) on the front of a frame rack (10) and said switches (46) are closed after the HDD (16) is installed for fast replacement.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize latch body as taught by Collins et al. in the invention of Franke et al., in order to allow a HDD module to be releasably removed and secured.

With respect to claim 3, Franke et al. teaches (Fig. 1) a clipping slot (118,218) is on the end of said inserting slot (108,208) of said frame rack.

With respect to claim 4, Collins et al. teaches (Fig. 3) a strengthening part (102,104) is on the top back of said switch (46) of said frame rack (not labeled).

With respect to claim 5, Franke et al. teaches (Fig. 1) said screws (110,112) have a flat sphere body on the front and threads on the back.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Larabell (US 5660553), Chen et al. (US 6628515 B2), Liu et al. (US 6667880 B2), Su (US 2005/0128697 A1), Liang et al. (US 6388874 B1), Babb et al. (US 5332306) & Wu (US 20050087504 A1) show the general state of the art regarding rack configurations.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571) 272-8392. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IDW



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